PROJECT TITLE : SALAMANDER-II

PERIOD COVERED : FEBRUARY 1981

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The objective of Project SALAMANDER-II is to develop zero ISH cigarettes of commercial quality. To this end the smoke components and their precursors in the filler, responsible for cysteine reactivity, should be identified.

EXPERIMENTAL

Preliminary HPTLC separations of ISH trap solutions and ISH solutions after cold trapping at -120° indicate broad similarity. Both solutions have cysteine, cystine and thiazolidine present. Some polar ninhydrin positive material, found in ambient temperature measurements is absent after cold trapping at -120°. This work should be repeated with fresh solutions and precautions to reduce on plate oxydation reactions.

EQUIPMENT

Requests for HPLC and anciliary equipment await budget approval.

Delivery of ventilated smoking machine hoods should take place at the end of February. The installation of the necessary ducting has been requested from the FTR workshop and the building's owner contacted for permission to make further apertures in the walls.

FUTURE PLANS

A smoking machine equipped with an electrostatic smoke trap will be used to test the hypothesis that charged species may be responsible for ISH activity.

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